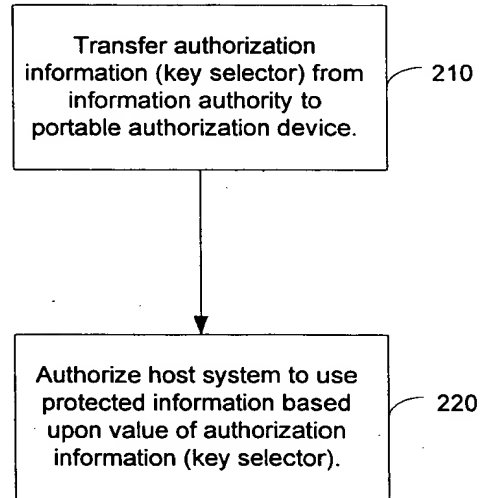


FIG. 1

## OVERALL AUTHORIZATION PROCESS



**FIG. 2**

# PORTABLE AUTHORIZATION DEVICE

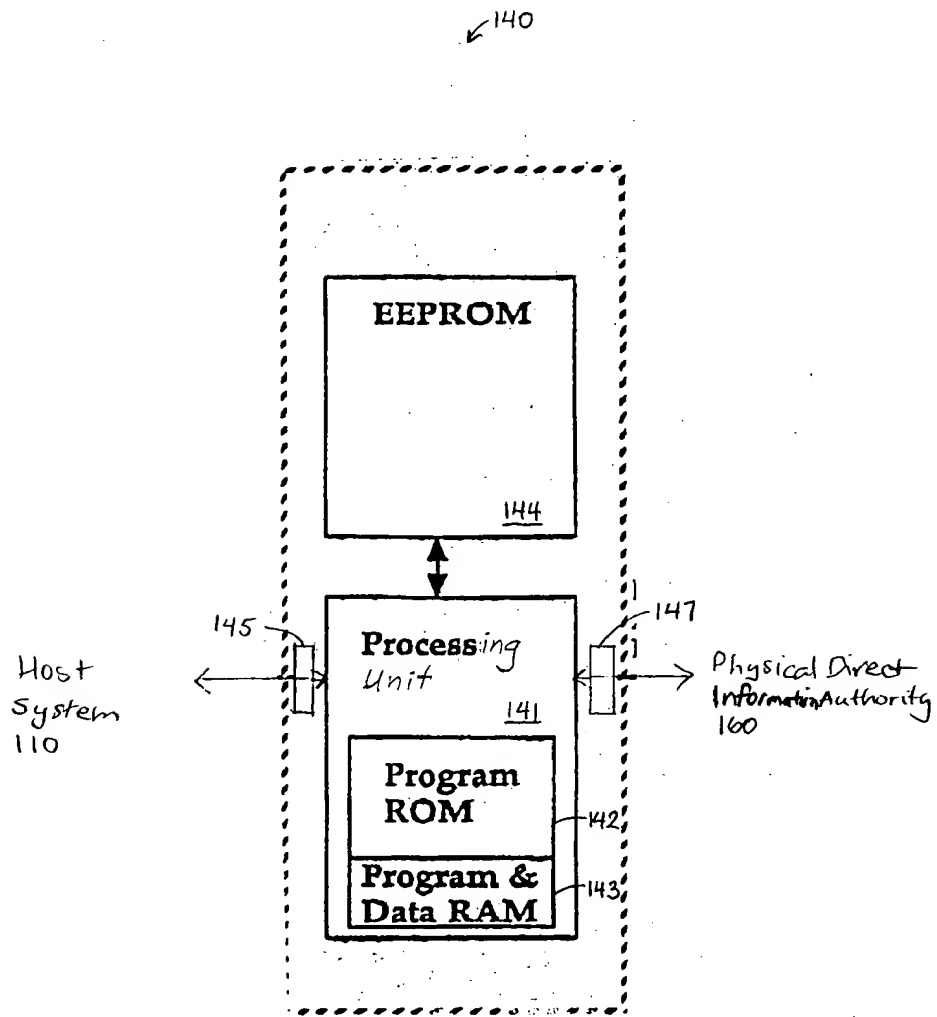


FIG. 3

FUNCTIONAL COMPONENTS OF  
PORTABLE AUTHORIZATION DEVICE

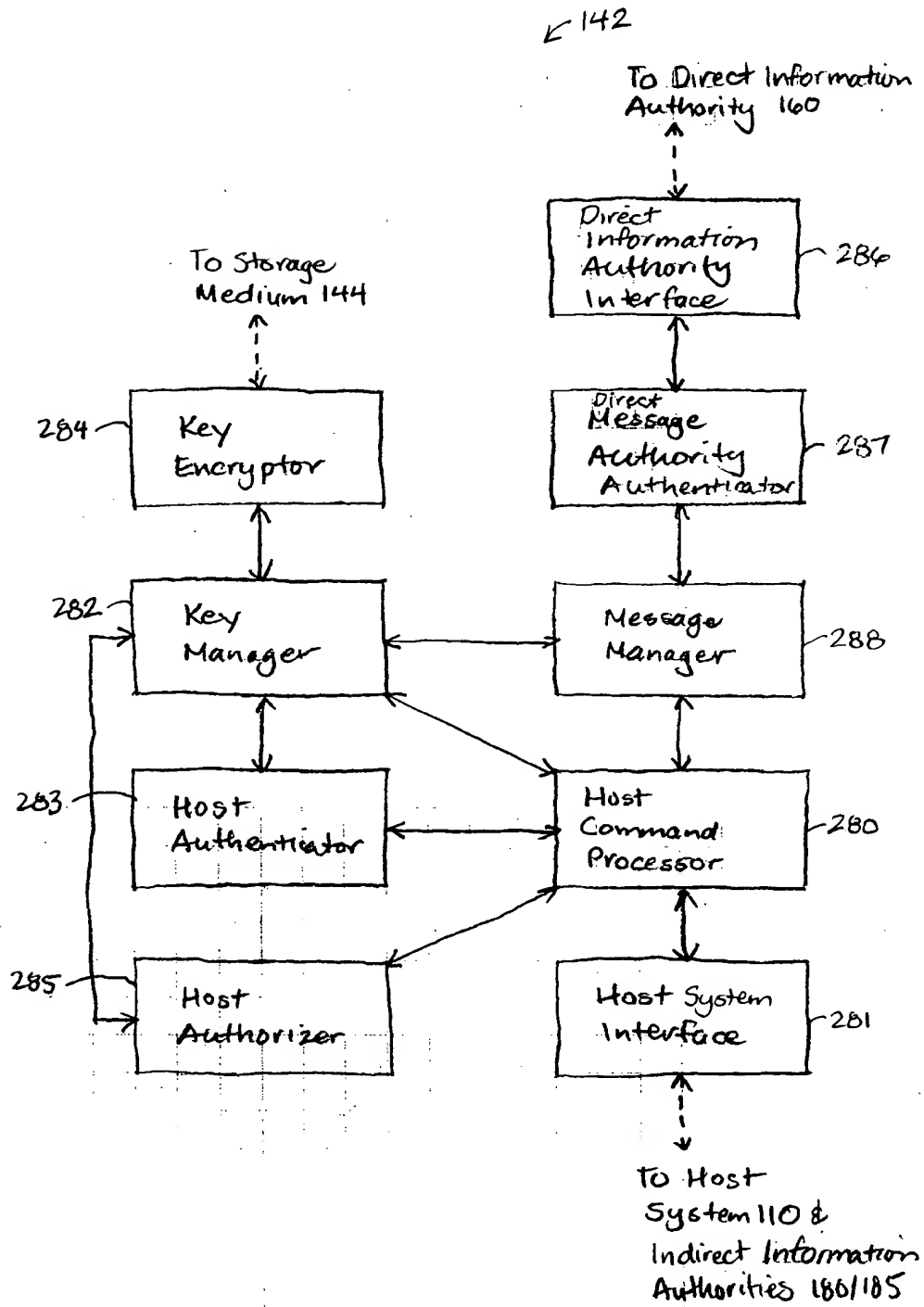


FIG. 4

PORTABLE AUTHORIZATION DEVICE  
STORAGE MEDIUM

144

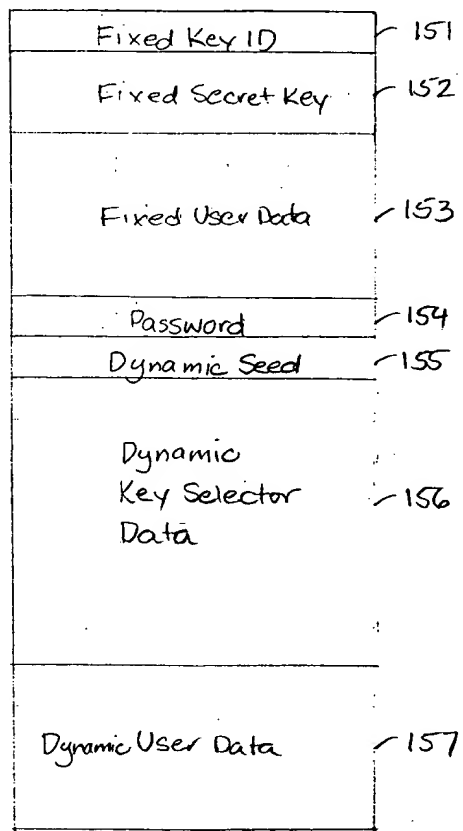


FIG. 5

FORMAT OF  
DYNAMIC USER DATA

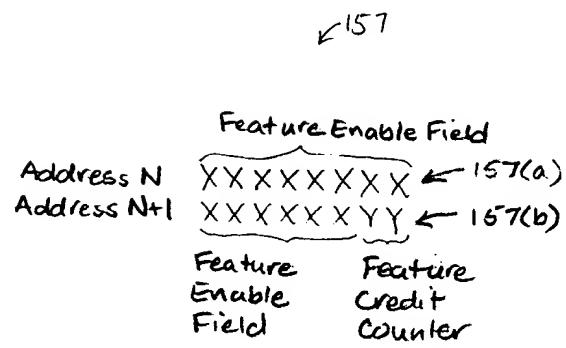


FIG. 6

PHYSICAL DIRECT  
MESSAGE AUTHORITY

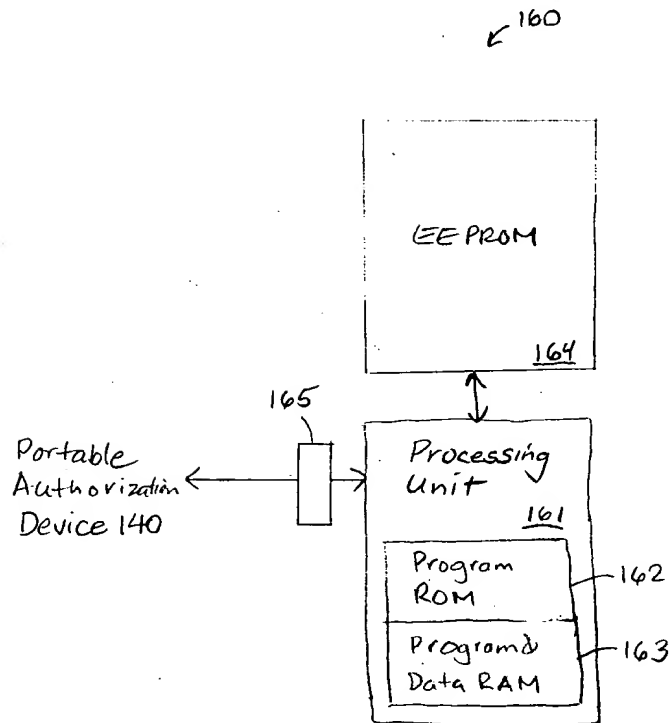


FIG. 7

PHYSICAL DIRECT  
MESSAGE AUTHORITY  
STORAGE MEDIUM

← 164

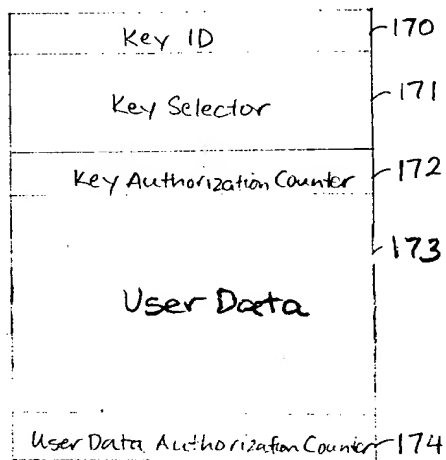


FIG. 8



## KEY SELECTOR TRANSFER PROCESS

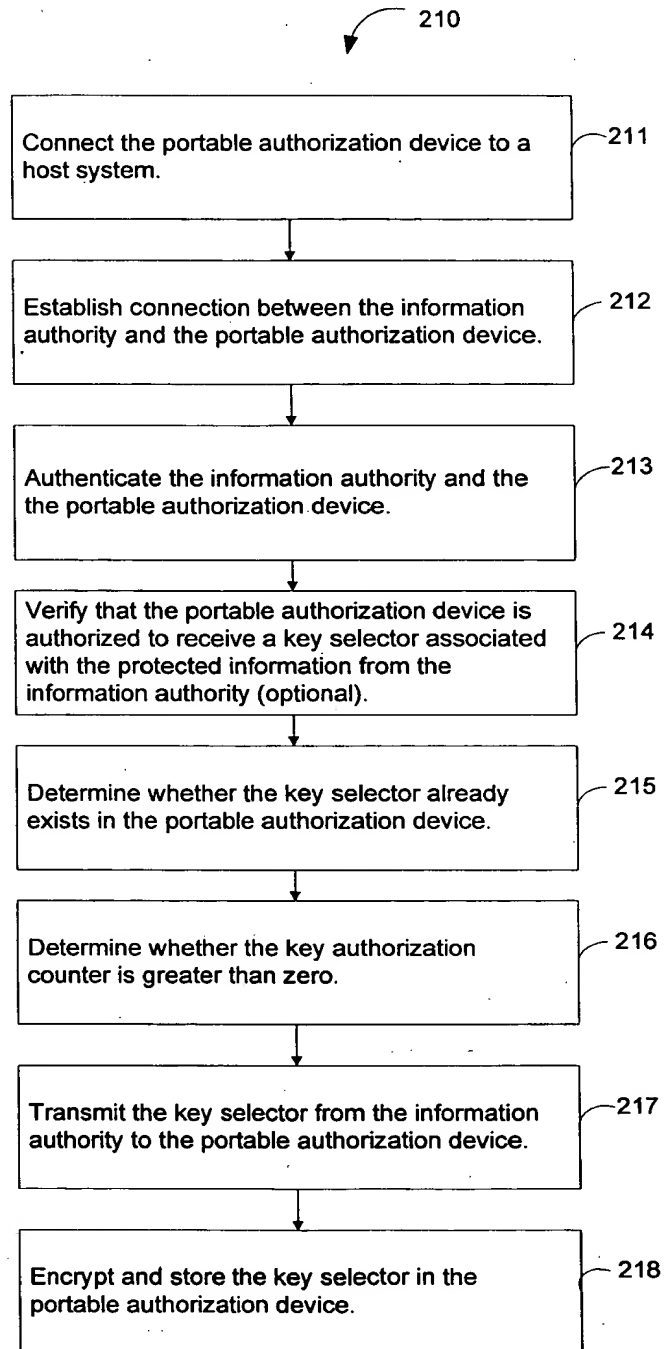


FIG. 9

# HOST SYSTEM AUTHORIZATION PROCESS

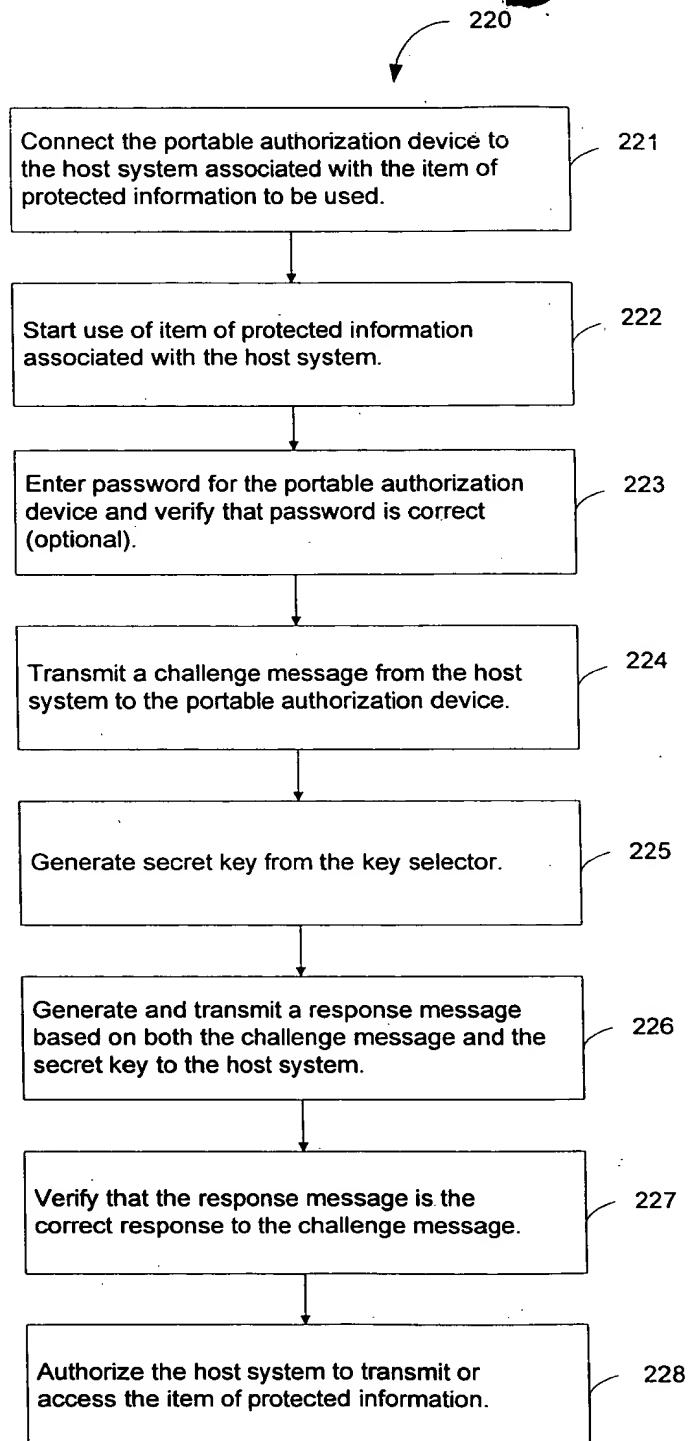


FIG. 10

# KEY BLENDING ALGORITHM

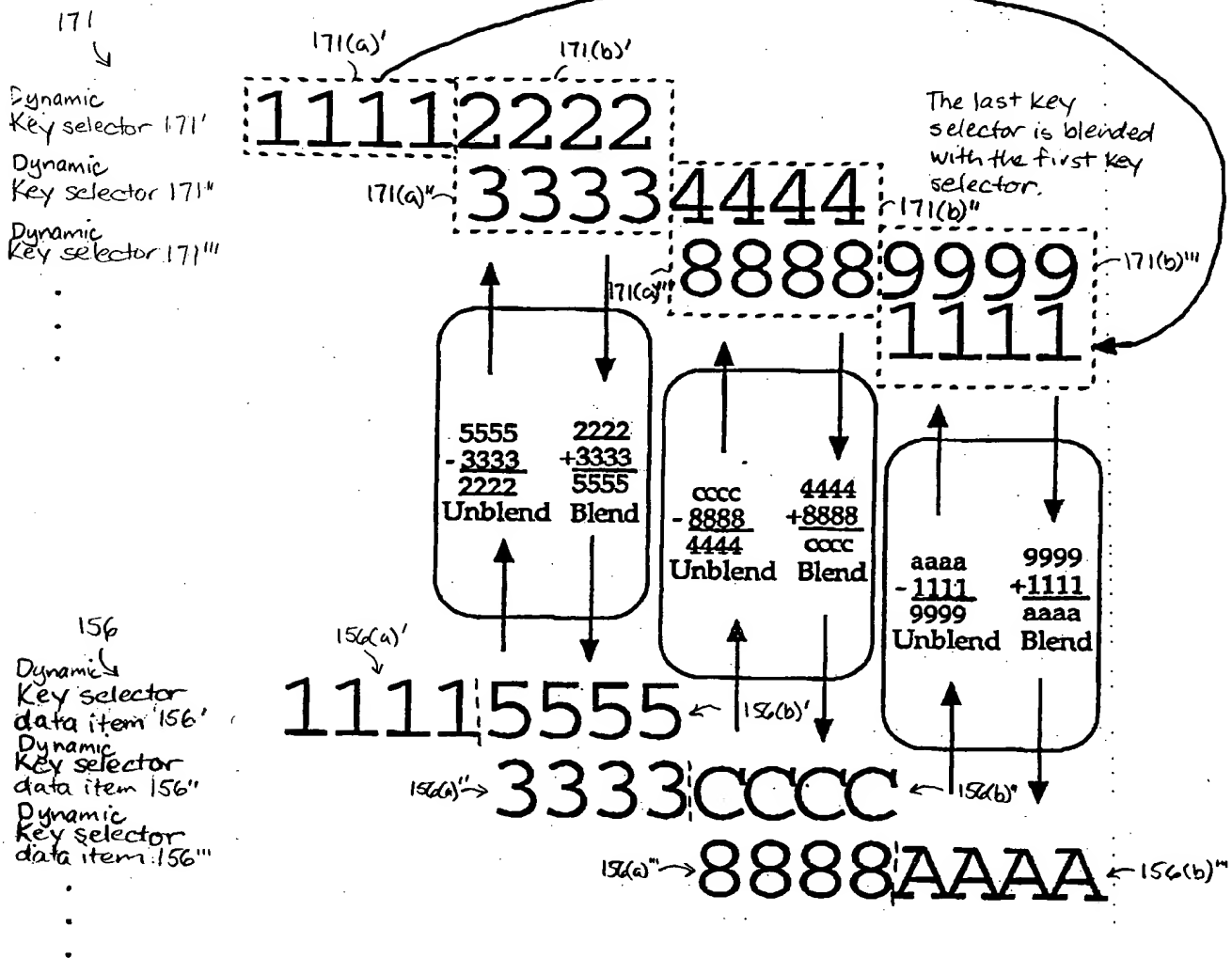
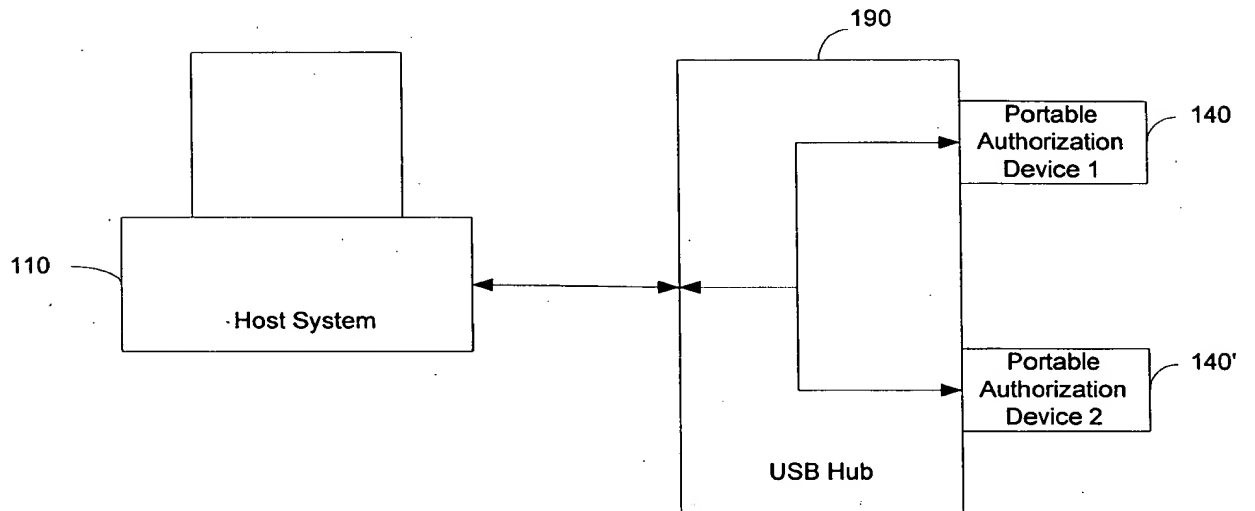


FIG. 11

**KEY EXCHANGE BETWEEN TWO PORTABLE  
AUTHORIZATION DEVICES**



**FIG. 12**